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Paxillus Notebook 1

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SOUTHEASTERN SPECIES OF PAXILLUS

ATROTOMENTOSUS Fr.

CURTISII Berk. (corrugatus Atk.)

INVOLUTUS Fr.

PANUOIDES Fr.

RHODOXANTHUS Schw.

Literature

Kauffman, C.H. The genera Hamnula and Paxillus and the status of ^{the} American Species. Amer. Jour. Bot. 13: 11-32. 1926.

Singer, Rolf. The "Agaricales" (Mushrooms) in Modern Taxonomy, pp. 629-631. 1949. (A Key to species given on p. 631).

PAXILLUS ATROTOMENTOSUS Fr.

Epicr. Myc., p. 317. 1838

Illustration:

~~Plate~~

Pileus 8-15 cm., convex, expanding, finally upturned and deeply depressed, "ochraceous buff" to "yellow ocher," dry, short-tomentose, glabrescent, at times coarsely scaly from cracking of cuticle, margin even, wavy, incurved. Flesh thick, rather compact, white, promptly yellow becoming lavender in 15% KOH; odor and taste somewhat alkaline. Lamellae short-decurrent, close, broad, easily separable from pileus, ^{pallid or nearly white at first, then} "ochraceous buff," brown in KOH, edges even. Stipe 3-7 cm. x 15-30 mm., central or eccentric, tough, with a dense brown-velvety tomentum, equal or tapering upward slightly, solid.

Spores 4.5-5.5 x 3-3.5 μ , ovoid to ellipsoid, smooth, non-amyloid, in mass: "dark olive buff." Pleurocystidia and cheilocystidia none.

Habitat and Distribution. - Singly and cespitose, on conifer logs and stumps, Tennessee and North Carolina, June-September.

19149 - *Papillus atrotomentosus* Jo.



21628 - *Papillus atrotomentosus* Fr.

PAXILLUS CURTISII Berk.

Ann. Mag. Nat. Hist. II:12:423. 1853

Paxillus corrugatus Atk., Studies of Amer. Fungi, p. 170. 1900

Pileus 2-7 cm. broad, imbricate, sessile, often laterally confluent, shelving-dimidiolate, convex, expanding convex, at first greenish or "olive-ocher" then "xanthine orange" behind, marginal half "olive lake," "isabella color," "medal bronze" to "Reed yellow," matted-tomentose, more or less glabrescent, margin even, involute. Flesh thick, thin on margin, yellowish to greenish, finally brownish, spongy; odor strong, disagreeable (suggesting old magnolia blossoms or fruit of may-apple); taste bitter. Lamellae radiating from central-basal point, corrugated-wavy, rather broad, narrowed in front, close, dichotomously forked, anastomosed, "ferruginous," "light orange yellow" or "deep chrome" to "warm buff," finally "yellow ocher," easily separating from pileus, edges even but wavy. Stipe absent.

Spores 2.3-3.8 x 1.5-2.0 μ , ellipsoidal, smooth, color in mass: "dark olive buff" to "buffy citrine." Pleurocystidia and cheilocystidia none.

Habitat and Distribution. - On conifer and deciduous logs and stumps, Tennessee, ^{Kentucky,} North Carolina, and Florida, June-September.

Discussion. - In our No. 18019, when collected, the pileus was fasciculate-squamulose, the odor mild, and the spores 4-5 x 3.5-4 μ , "honey yellow" in mass. Despite these characters, Dr. A. H. Smith agrees that this collection should be referred to P. Curtisii Berk.

20890 - *Paxillus Curtinii* Berk.
(= *P. corrugatus* Atk.)



12906 - Paxillus ^{Cortesii Berk.}
~~convexus~~ Atk.

PAXILLUS INVOLUTUS Fr.

Gen. Hymen., p. 8. 1836

Pileus 5-12 cm. broad, convex, fibrillose, viscid when wet, "clay color," "sage brown," "snuff brown" to "tawny olive," at times with "orange cinnamon" areas, margin at first involute, often heavy-tomentose and ridged. Flesh medium thick, abruptly thin on margin; pale yellow, brownish when bruised; odor and taste mild. Lamellae decurrent, rather broad, close, forked, anastomosed-parous on stipe, at first pallid, then yellowish, finally "tawny olive," to brownish in age or when bruised. Stipe 2.5-8 cm. x 5-16 mm., central or eccentric, equal or enlarged downward or at base, dingy brownish, reddish or brownish when bruised, dry, solid.

Spores 7-9 (11, rarely 13 μ) x 4.5-5 μ , ellipsoidal, smooth. Pleurocystidia scattered, lanceolate, often inconspicuous, at times with brownish contents, 40-73 x 6-10 μ ; cheilocystidia similar.

Habitat and Distribution. - On soil and decaying logs, Tennessee, North Carolina, South Carolina, June-September.



20582 - *Paxillus involutus* Fr.



21916 - *Paxillus involutus* Fr.



20968 - *Paxillus involutus* Fr.



21491 - *Paxillus involutus* Fr.

PAXILLUS PANUOIDES Fr.

Epicr. Myc., p. 318. 1838

Pileus 2-6 (10) cm. broad, sessile, cuneate, fan-shaped or conchate, whitish "antimony yellow," "pale orange-yellow" or "honey yellow," hirsute behind, tomentose in front, with scattered fibrillose scales, margin involute, even. Flesh thick, firm or moderately so, white to pale yellow; odor mild and taste mild or bitter. Lamellae radiating, close, "ochraceous orange" to "ochraceous buff," medium broad, forking, anastomosing, crisped or wavy, edges even. Stipe none; pileus laterally attached.

Spores 3.5-5 x 2.5-4 μ , short-ellipsoid, smooth, in mass: "saya brown," "isabella color," or "old gold" (not well matched). Pleurocystidia and cheilocystidia none.

Habitat and Distribution. - On conifer and deciduous logs and stumps, Tennessee, North Carolina, Alabama, and Florida, March-October.

Discussion. - All parts become reddish-brown in 15% KOH.

21466



21466 - *Paxillus fanuoides* Fr.

PAXILLUS RHODOXANTHUS Schw.

Synopsis Fung. p. 1822

Pileus 4-10 cm. broad, convex, depressed, "orange cinnamon," "mikado brown," "sayal brown," "ochraceous tawny," "cinnamon," "hazel," "Kaiser brown" or "cinnamon rufous," tomentose, rimosely cracked, margin even, incurved. Flesh medium thick on disk, thin on margin, tinged pinkish above, yellowish below, firm; odor and taste mild. Lamellae arcuate-decurrent, "aniline yellow," "lemon chrome," "pale lemon yellow," "strontian yellow," or "empire yellow," broad, close, many short, none forked, edges even. Stipe 1.5-6 (10) cm. x 4-15 mm., curved, rufous above, yellowish below, upper portion tomentose, apex often reticulate, as in Boletus, at times with russet scales, flesh yellow, cavernous, enlarged upward, at times equal, dry.

Spores oblong, 9-12 x 3.5-5 μ , like Boletus spores, smooth; color in mass: "vetiver green," "buffy olive," "dark olive buff," to "buffy citrine." Pleurocystidia scattered, buried deeply but projecting (40 μ), yellow, 60-112 x 12-18 μ , clavate to bottle-shaped-fusiform; cheilocystidia clavate-cylindrical, 42-56 x 10-17 μ , yellow.

Cuticle of pileus composed of tangled hyphae with numerous, more or less erect, clavate pilocystidia, 72-80 x 10-13 μ .

Habitat and Distribution. - On soil, mixed and ~~frondose~~ ^{deciduous} woods, Tennessee, North Carolina, Georgia, Alabama, and Florida, June-September.

20904 - *Taxillus rhodoxanthus* Schw.



21893 - *Paxillus rhodoxanthus* Achw.